

Certified Vibration Analyst Practice Test Questions and Answers

1. What is the primary purpose of vibration analysis in machinery maintenance?

- A) To increase machine speed
- B) To detect mechanical faults and predict failures
- C) To reduce energy consumption
- D) To improve product quality

2. Which type of bearing defect typically produces high-frequency vibrations?

- A) Unbalance
- B) Misalignment
- C) Rolling element bearing defects
- D) Belt looseness

3. What does RMS (Root Mean Square) represent in vibration measurements?

- A) Maximum vibration amplitude
- B) Average energy content of the vibration signal
- C) Minimum vibration level
- D) Frequency of vibration

4. At what frequency would you typically find vibration caused by shaft unbalance?

- A) 0.5 times running speed
- B) 1 times running speed (1X RPM)
- C) 2 times running speed
- D) 10 times running speed

Answers: 1-B 2-C 3-B 4-B

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